

MITYUNIN, N.K., starshiy nauchnyy sotrudnik (Leningrad K-17, prospekt Engel'sa, d.53, kv.15); D'YACHENKO, P.K., kand. med. nauk;  
FROLOV, G.M., mladshiy nauchnyy sotrudnik

Preservation of the extremity after crushing of the hip. Ortop.,  
travm. i protez. 26 no.3:46-48 Mr '65. (MIRA 18:7)

1. Iz travmatologicheskoy kliniki (rukovoditel' - N.K.Mityunin)  
Leningradskogo instituta skoroy pomoshchi imeni Dzhanelidze (dir. -  
prof. G.D.Shushkov).

BAZHENOVA, K.M., dots.; VOL'FOVSKAYA, R.N., dots.; GARVIN,  
Leonid Iosifovich, dots.; KALASHNIKOV, B.P., prof.;  
K'YANDSKIY, A.A., prof.; LEVIN, G.Z., prof.; LOPOTKO,  
I.A., prof.; PARIYSKAYA, T.V., kand. med. nauk;  
ROZHDESTVENSKIY, V.I., doktor med. nauk; ROMANOVSKAYA, V.K.;  
TUR, A.F., prof.; KHVILIVITSKIY, T.Ya., prof.; KHROMOV, B.M.,  
prof.; SHRAYBER, M.G., prof.; D'YACHENKO, P.K., red.

[Manual for the physician on emergency and first aid] Spra-  
vochnik vracha skoroi i neotlozhnoi pomoshchi. Izd.2., ispr.  
i dop. Leningrad, Meditsina, 1965. 355 p. (MIRA 18:4)

Country : USSR F  
Category : Microbiology - Sanitation - Microbiology  
Abs. Jour : Trudy Bur - Biol., No.19, 1978, 860-86  
Author : Gilyadenko, P.I.  
Institut. : \_\_\_\_\_  
Title : The ring reaction of milk of cows (with the antigen of the Gen. MIV) for Brucella  
Orig. Pub. : Sov. Zhurnal. Birmizi, 1978, No.1, 51-57  
Abstract : no abstract

Card: 1,1

D'YACHENKO, P.N.

Circular reaction of cow's milk (with antigen from the Leningrad Scientific Research Veterinary Institute) for brucellosis. Sov. zdrav.Kirg. no.1:54-57 Ja-F '58. (MIRA 13:7)

1. Iz kafedry obshchey gigiyeny (i.o. zav. - dotsent G.A. Gud-zovskiy) Kirgizskogo gosmedinstituta i otdela Kirgizskogo respublikanskoy sanepidstantsii (zav. - A.N. Borodin).  
(BRUCELLOSIS) (MILK--BACTERIOLOGY)

D'YACHENKO, P.N.

Sanitary evidence regarding milk from cows vaccinated with strain no.19 on farms threatened by brucellosis. Sov. zdrav. Kir. no.1: 33-35 Ja-F '62. (MIRA 15:4)

1. Iz kafedry gigiyeny sanitarnogo fakul'teta (zav. - dotsent G.A. Gudzovskiy) Kirgizskogo gosudarstvennogo meditsinskogo instituta i otдела osobo opasnykh infektsiy Respublikanskoy sanitarno-epidemiologicheskoy stantsii (zav. - zasluzhennyy vrach respubliky A.N.Borodin) Ministerstva zdravookhraneniya Kirgizskoy SSR.  
(MILK--ANALYSIS AND EXAMINATION) (BRUCELOSIS)

D'YACHKOV, P.N.; ZHUKOV, A.V.; BUSHUYEVA, T.N.

Air-setting coatings of the linings of steel-pouring spouts. *Biul.tekh.  
-ekon.inform.Gos.nauch.-issl.inst.nauch.* 1 to 1984, no. 7.3-5  
J1 '64. (MIRA 17:10)

D.YACHENKO, P.P.; MIROSHNICHENKO, M.I.

Brucellosis poisoning of a family through the milk of a cow infected with the sheep type of Brucella and the role of human milk in the transmission of brucellosis infection. Sov. zdrav. Kir. no.1:51-52 Ja-F '63. (MIRA 16:3)

1. Iz otdela osobo opasnykh infektsiy Kirgizskoy respublikanskoy sanitarno-epidemiologicheskoy stantsii (zav. - zasluzhennyy vrach Kirgizskoy SSR A.N. Borodin). (BRUCELLOSIS)

D'YACHENKO, P.P.; KUZ'MINOV, B.D.; KUTSAYEVA, L.S.; SERGACHEV, A.I.;  
UTYUZHNIKOV, A.N.

Correlation of the mass distribution of fission fragments with  
the quantum characteristics of the nucleus at the saddle point.  
Atom. energ. 15 no.3:246-247 S '63. (MIRA 16:10)

(Nuclear fission) (Quantum theory)



L 15529-63

EPR(n)-2/ENT(m)/EDS AFFTC/ASD/SSD Pu-4

ACCESSION NR: AP3005234

8/0056/63/045/002/0008/0012

65  
63

AUTHORS: D'yachenko, P. P.; Kuz'minov, B. D.; Kutsayeva, L. S.; Okolovich, V. N.; Smirenkin, G. N.; Utyuzhnikov, A. N.

TITLE: Kinetic energy of fragments produced in symmetric fission of U-235 19

SOURCE: Zhurn. eksper. i teoret. fiz. v. 45, no. 2, 1963, 8-12

TOPIC TAGS: Fission, symmetric, kinetic energy, U-235, induced fission

ABSTRACT: The mean kinetic energy of the fragments produced in symmetrical U-235 fission induced by 7-, 14.5-, and 20-MeV neutrons has measured and found to be constant, within the limits of experimental error, just as in the case of a symmetrical fission. This refutes the hypothesis made by Selitskiy and Eysmont (Zh. eksp. i teoret. fiz. v. 43, 1005, 1962) that symmetric fission is a fast process. The hypothesis by Kovalenko, Petrzhak, and Adamov (Atomnaya energiya v. 13, 474, 1962) that symmetrical fission is of the subbarrier type is likewise refuted. The results are interpreted from the point of view that the two types of fission correspond to two barriers. The authors are indebted to Prof. I. I. Bondarenko and to N. S. Rabotnov for a discussion of the results.

Card 1/41

L 28036-66 EWA(h)/EWT(m)/I/EWP(t)/ETI IJP(c) JD

ACC NR: AP5027011

SOURCE CODE: UR/0120/65/000/005/0085/0088

AUTHOR: D'yachenko, P. P.; Kuz'minov, B. D.; Chukichev, M. V.

ORG: None

TITLE: The effect produced by the surface quality upon the performance of silicon counters of fission fragments

SOURCE: Pribery i tekhnika eksperimenta, no. 5, 1965, 85-88

TOPIC TAGS: nuclear fission, nuclear physics apparatus

ABSTRACT: After reviewing the preceding research and experiments the authors presented the results of their investigations of two lots of surface-barrier detectors. Their aim was to determine the causes of "tails" in the pulse amplitude distribution curves. On analyzing the curves showing the distribution of the fragment energies originated in the U235 fission by thermal neutrons and examining the possible causes, the authors concluded that the tail defect was caused by the presence of craters on the counter surfaces. The thickness of the entrance insensitive layer composed of gold coating, silicon oxide film and p-type layer, was about 10 microns. The microscopic examinations disclosed that the surface craters were of various shapes and sizes. The

Card 1/2

UDC: 539.1.074.5

L 28036-66

ACC NR: AP5027011

crater depths up to 10 microns were observed. The crater surface was schematically illustrated and two surface photos (for the first and second lots) were presented. The surfaces of detectors belonging to the second lot were improved by a special treatment. It was proven that the number of pulses in the tail section was 10 times less in the counters with improved surfaces. The distribution of fragments by mass was illustrated in a graph. The authors expressed their thanks to L. S. Bondarenko, I. A. Gologova and R. S. Nakhmanson for their assistance. Orig. art. has: 5 figures.

SUB CODE: 18 / SUEM DATE: 15July64 / ORIG REF: 002 / OTH REF: 002

Card 2/2 cc

D'YACHENKO, P.P.; KUZ'MINOV, B.D.; CHUKICHEV, M.V.

Effect of the state of the surface on the operation of  
silicon counters of fission fragments. Prib. i tekhn. eksp.  
10 no.5:85-88 S-0 '65.

(MIRA 19:1)

1. Submitted July 15, 1964.

L 4379-66 EWI(m)/EWA(h)  
ACCESSION NR: AP5020258

UR/0367/65/002/001/0092/0096

AUTHOR: D'yachenko, P. P.; Kuz'minov, B. D.; Smirnov, V. I.; Chernukhin, V. L.; Chubarov, B. I.

TITLE: Kinetic energies of fragments with various masses in the fission of U-235 by thermal and fast neutrons

SOURCE: Yadernaya fizika, v. 2, no. 1, 1965, 92-96

TOPIC TAGS: uranium, nuclear fission, fission product, fast neutron, thermal neutron

ABSTRACT: The kinetic energy distributions of fragments with various masses have been investigated in the fission of  $U^{235}$  by thermal neutrons and by neutrons of mean energy 720 kev, for the purpose of comparing the dependence of the total fragment kinetic energies on the fragment mass ratios at the two fissioning-neutron energies. The fission was produced in a layer of uranium enriched 90% in  $U^{235}$ , deposited on a thin organic film, and the fragment energy was measured with two surface-barrier silicon detectors. The detector signals were analyzed after amplification by a two-dimensional 128 x 128 channel pulse-height analyzer, which sorted the pulse heights and stored all the information obtained during the measurements.

Card 1/2

L 4379-66

ACCESSION NR: AP5020258

The results show that the mean total kinetic energies of the fission fragments have the same value for thermal and fast neutron fission, amounting to  $156 \pm 2$  Mev for fission into two fragments with approximately equal masses. This means that in bombardment of  $U^{235}$  by thermal neutrons and neutrons with an average energy of 720 keV, the kinetic energy of the symmetric-fission fragments is approximately 10 Mev lower than for fission by neutrons with energies above 7 Mev. "The authors thank A. I. Sergachev, A. B. Yekator, V. F. Semenov, A. N. Utyuzhnikov, A. N. Agfonov, and V. V. Kalyuzhnyy for help." Orig. art. has: 4 figures.

ASSOCIATION: None

SUBMITTED: 19Jan65

ENCL: 00

SUB CODE: NP

NR REF SOV: 003

OTHER: 004

Card 2/2

D'YACHENKO, F.P.; KUZ'MINOV, B.I.; SMIRNOV, V.I.; CHERNUSHIN, V.I.; CHUBAROV, S.I.

Kinetic energies of fragments of various masses in  $^{235}\text{U}$  fission by  
thermal and fast neutrons. IAG. fiz. 7 no.1:92-96 01. '68.  
(MIRA 1838)

D'YACHENKO, P. S., Asst., Belotserkov Agricultural Institute

"Improvement of the vaginoscopy technique in agricultural animals."

SO: Veterinariia 28(12), 1951, p. 36.



DOROSHKOV, V.B., assistant; D'YACHENKO, P.S., assistant.

~~and others~~  
Perfecting a technique of continuous irrigation of the vagina in  
veterinary gynecological practice. Veterinariia 31 no.1:58-59  
Ja '53. (MLBA 6:12)

Belotserkovskiy sel'skokhozyaystvennyy institut.

D'YACHENKO, P.S., assistant.

~~\_\_\_\_\_~~  
Ridding cows of obstructions of the teat duct. Veterinariia 34 no.4:  
69-70 Ap '57. (MLRA 10:4)

1. Belotserkovskiy sel'skokhozyaystvennyy institut.  
(Udder--Diseases) (Cows--Diseases and pests)

<sup>3</sup>  
DYACHENKO, P. S., Cand Vet Sci -- "Search for and comparative evaluation of certain methods of inhibiting sexual functions in young <sup>h-w</sup> ~~pigs~~ in their fattening period." L'vov, 1961. (Min of Agr RSFSR. L'vov Zoovet Inst) (KL, 8-61, 256)

- 399 -

ANDRIYEVSKIY, V.Ya., dotsent; D'YACHENKO, P.S., dotsent; POVSHEDNAYA, O.P.

Diagnosis of latent forms of mastitis in cows. Veterinariia  
41 no.6:94-96 Je '64. (MIRA 18:6)

1. Belotserkovskiy sel'skokhozyaystvennyy institut.

L 24922-65 EWT(d)/T Ph-4 IJP(c)  
ACCESSION NR: AT5001699

S/2945/64/000/017/0035/0047

AUTHOR: D'yachenko, V. F.

TITLE: Conversion of logic algorithm schemes

SOURCE: AN SSSR. Institut problem peredachi informatsii. Problemy peredachi informatsii, no. 17, 1964. Printsipy postroyeniya setey i sistem upravleniya (Principles of network construction and control systems), 35-41

TOPIC IAGS: information theory, mathematical logic, information processing, matrix algorithm scheme, logic algorithm scheme, control system

ABSTRACT: A system of conversion formulas and their identity transforms is used for converting logic algorithm schemes. This article is based on earlier work by V. F. D'yachenko, Elementy matematicheskoy logiki (Moscow, 1963) and by the author (Problemy kibernetiki, vyp. 1, Moscow, 1963). A system of axioms and rules of deduction is considered which permits identity transforms to be carried out in the schematic formulas. A logic algorithm equivalent to a matrix algorithm scheme (the same one used by Yu. I. Yanov in Problemy kibernetiki, vyp. 1, Moscow, 1958, p. 122) is obtained. The algorithm for conversion from a system of schematic

Card 1-3

L 24922-65

ACCESSION NR: AT5001699

formulas to a logic algorithm scheme is shown schematically in an appendix (see Fig. 1 of the Enclosure), which also presents a list of operators and a list of logic variables. Orig. art. has: 1 figure and 54 formulas.

ASSOCIATION: Institut problem peredachi informatsii AN SSSR (Information transfer problems institute, AN SSSR)

SUBMITTED: 00

ENCL: 01

SUB CODE: DP, IE

100

OTHER: 000

Card 2/3

L 24922-65

ACCESSION NR: AT5001699

ENCLOSURE: 01

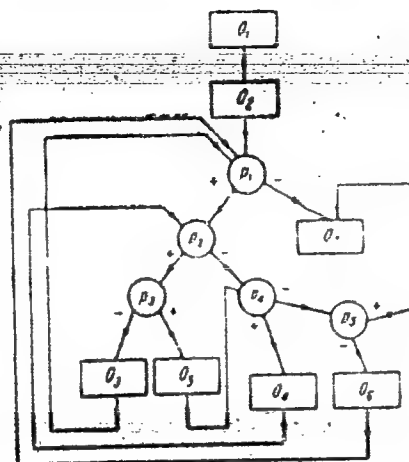


Figure 1. Algorithm for transformation of a system of schematic formulas to a logic algorithm scheme.

Card 3/3

D'YACHENKO, V.I., tekhnik

Calculation of time delay and matching according to the  
selectivity of overcurrent protection systems with a limited  
dependent characteristic. Energetik 11 no.8:21-24 Ag '63.  
(MIRA 16:10)



SKVARIK, V.P. [Skvaryk, V.P.], kand. tekhn. nauk; D'YACHENKO, V.S.; KUCHERENKO,  
A.G. [Kucherenko, A.H.]; VOLOSHIN, A.M. [Voloshyn, A.M.]; IVANOV, A.O.

Use of plastics in shoe manufacture. Lek. prom. no.3:76-81 JI-S '64.  
(MIRA 17:10)

DWENICKI, Tadeusz

~~Topical treatment of chronic otitis media with penicillin in~~  
oil. Otolar.polska 9 no.1:33-42 '55.

1. Z Oddziału Otolarungologicznego. Ordynarot dr. Tadeusz  
Dwernicki Szpitala Miejskiego Nr. 1 w Bytomiu. Dyrektor: dr.  
Władysław Kubisty.

(OTITIS MEDIA, therapy  
penicillin)

(PENICILLIN, ther. use  
otitis media, chronic

POLAND / Chemical Technology. Chemical Products and      H-27  
Their Application. Fermentation Industry.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 2734.

Author : Dwernicki, W.

Inst : Not given.

Title : The Evaluation of Brewing Qualities of Barley.

Orig Pub: Hodowla Rosl., aklimat. i nasienn., 1957, 1,  
No 4, 477-487.

Abstract: A review on existing methods and discussion on  
the possibilities of their application for eval-  
uating Polish brewing barleys. -- Z. Fabinskiy.

Card 1/1

78

EXCERPTA MEDICA Sec 17 Vol. 2/5 Pub. Health May 56

696. DWIZKOW P. P. Odd. anat. Patol. Inst. Hig, Pracy i Chor. Zawodowych.  
A.N.M.ZSRR. \*Zagadnienia patogenezy krzemicy. The problem of the  
pathogenesis of silicosis MED. PRACY 1955, 6/1 (45-51)  
The investigations showed the role of the nervous system in the pathogenesis of  
silicosis. The elimination of pulmonary receptors (by use of procaine) diminished  
considerably the evolution of morbid changes of experimental silicosis in rats.  
Morbid changes (fibrosis, degeneration) were discovered in pulmonary nerves and  
also in the central nervous system (cortex, subcortical centres due to anoxaemia).  
The nervous functions showed characteristic disturbances. The impairment of the  
nervous system explains the sensitivity to secondary tb infection. The amorphous  
silicon dioxide causes the same changes as the crystalline form.  
Gaertner - Cracow (VI, 15, 17)

**"APPROVED FOR RELEASE: 08/22/2000**

**CIA-RDP86-00513R000411710008-9**

**APPROVED FOR RELEASE: 08/22/2000**

**CIA-RDP86-00513R000411710008-9"**

D'YACHENKO, PV

PHASE I BOOK EXPLOITATION

SOV/3672

SOV/2-M-101

Leningrad. Glavnaya geofizicheskaya observatoriya imeni A.I. Voyeykova [Trudy, No. 101] Voprosy poverki meteorologicheskikh priborov (Problems in Checking the Meteorological Instruments) Leningrad, Gidrometeoizdat, 1959. 73 p. Errata slip inserted. 1,000 copies printed.

Sponsoring Agencies: USSR. Sovet Ministrov. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

Eds. (Title page): O.A. Drozdov, Doctor of Geographical Sciences; and P.V. D'yachenko, Candidate of Physical and Mathematical Sciences. Ed.: V.S. Protopopov; Tech. Ed.: N.V. Volkov.

PURPOSE: The book is intended for meteorologists and research workers in meteorology, as well as for designers and engineers working in meteorological instrument making.

COVERAGE: This publication consists of four articles dealing mainly with the problem of better methods for checking certain meteorological instruments, such as the aerodynamic telescope of the Observatory, the manual anemometers in the industrial

Card 1/3

Problems in Checking (Cont.)

SOV/3672

plants, the thermoelectric balance meters, etc. In addition, the book deals with the possibilities of improving the correctness and accuracy of some meteorological investigations. Bibliographic references are given at the end of each article.

TABLE OF CONTENTS:

D'yachenko, P.V. Application of Mathematical Statistical Methods to the Study of the Microstructure of Fog and Clouds 3

The article presents the results of an investigation of the problem of experimental determination of the size of fog and cloud particles from the point of view of statistical probability. Data presented in the article makes greater accuracy possible in studies of the microstructure of fog and clouds.

D'yachenko, P.V., and A.I. Kameneva. Results of the Investigation of the Aerodynamic Telescope of the Main Geophysical Observatory. 51

Card 2/3

Problems in Checking (Cont.)

SOV/3672

The article gives detailed information on the aerodynamic telescope of the Main Geophysical Observatory, which is being used as a model installation in the Hydrometeorological Service of the USSR.

Kameneva, A.I. On Checking Manual Anemometers at Industrial Plants 60

The article presents briefly the results of work which made possible serial industrial production of manual cup-shaped anemometers GOST-6376-52 of A type.

Pokrovskaya, I.A. Errors in Checking Thermoelectric Balance Meters 64

The article presents the results of work done at the Central Laboratory of the Main Geophysical Observatory in evaluating errors which occur in determining the parameters of the balance meters used in the network of stations of the Hydrometeorological Service of the USSR.

AVAILABLE: Library of Congress

Card 3/3

TM/lsh  
5-26-60



D'YACHENKO, P.V.; PARNIS'CHEV, V.A.

Thermostat for testing the clock mechanisms of self-recorders.

Trudy GGO no.116:53-55 '61.

(MIRA 15:1)

(Thermostat) (Meteorological instruments--Testing)

MIKHAYLOV, V.V., prof., doktor tekhn.nauk; D'YACHENKO, P.Ya., inzh.;  
KLIMOVA, G.D., red.izd-vo; GOL'BERG, T.M., tekhn.red.

[Provisional instructions on the use of electric heating in stretching high resistance wire by stationary coiling machines]  
Vremennaya instruktsiya po primeneniю elektronagreva pri natiashhenii vysokoprochnoi provoloki statsionarnymi namotochnymi mashinami. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt., i stroit. materialam, 1960. 21 p. (MIRA 13:9)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut betona i zhelezobetona. 2. Daystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Mikhaylov).  
(Reinforcing bars) (Electric heating)

D'YACHENKO, F.V.

Cause of ambiguous readings of the hair hygrometer. Trudy GGU  
no.116:3-11 '61. (MIRA 15:1)  
(Hygrometry)

D'YACHENKO, F.V.; SUSHCHINSKIY, B.I.

Semiautomatic hygrometer. Trudy GGO no.116:12-29 '61.  
(MIRA 15:1)  
(Hygrometry) (Calibration)

D'YACHENKO, P.V.; KAMENEVA, A.I.

Apparatus for calibrating the ASO-3 ventilation anemometers. Trudy  
GGO no.116:41-46 '61. (MIRA 15:1)  
(Anemometer) (Calibration)

D'YACHENKO, P.V.; PARNISHCHEV, V.A.

Apparatus for calibrating thermographs. Trudy GGO no.116:47-52  
'61. (MIRA 15:1)  
(Thermometers) (Calibration)

D.YACHENKO, P.V.

Wear-resistant pivots of anemometers. Trudy GGO no.116:56-58 '61.  
(MIRA 15:1)

(Anemometer)

D'YACHENKO, P.V.

Ribbons for heliographs. Trudy GGO no.116:59-60 '61. (MIRA 15:1)  
(Heliograph)



D'YACHENKO, P.V.

Method and apparatus for determining correction factors accounting  
for the effect of wind on the readings of thermoelectric balance  
meters. Trudy GGO no.116:61-75 '61. (MIRA 15:1)  
(Actinometer)

D'YACHENKO, P.V.; KAMENEVA, A.I.

Low-speed wind tunnel. Trudy GGO no.116:30-40 '61. (MIRA 15:1)  
(Wind tunnels)

LEVI, S.S., kand. tekhn.nauk; RATNER, N.A., inzh.; KOPLEVICH, L.Kh.,  
inzh.; MADATYAN, S.A., inzh.; DOROFYEV, A.K., inzh.  
D'YACHENKO, P.Ya., inzh.; KLIMOVA, G.D., red. izd-va;  
MOCHALINA, Z.S., tekhn. red.

[Instructions N9-61 on reinforcing techniques in industrial  
and public construction] Ukazaniia po tekhnologii proizvodstva  
armaturnykh rabot v promyshlennom i grazhdanskom stroitel'stve  
(N9-61). Moskva, Gostroiizdat, 1962. 319 p. (MIRA 15:7)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut orga-  
nizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.  
(Concrete reinforcement) (Precast concrete)

D'YACHENKO, P.I., inzh.; D'YACHENKO, V.T., inzh.

Study of methods of controlling the heating of wire and strands  
as they are wound by reinforcement-winding machines with  
electromechanical tensioning. Trudy NIIZHB no.27:49-~~47~~  
'62. (MIRA 15:9)  
(Concrete reinforcement) (Prestressed concrete)

D'YACHENKO, Petr Yakovlevich; MIROTVORSKIY, Sergey Aleksandrovich;  
YERUKHIMOVICH, P.L., nauchnyy red.; FEDOROVA, T.N., red.izd-va;  
GLIZAROVA, I.L., red.izd-va; TEMKINA, Ye.L., tekhn.red.

[Prefabrication of precast reinforced concrete] Zavodskoe izgo-  
tovlenie sbornogo zhelezobetona. Moskva, Gos.izd-vo lit-ry po  
stroit., arkhitekt. i stroit.materialam, 1960. 281 p.

(MIRA 13:12)

(Precast concrete)

YEGOROV, V.A.; D'YACHENKO, P.Ye., doktor tekhn. nauk, retsenzent;  
BARANOVA, Z.S., inzh., red.

[Optical instruments and feeler gauges for measuring the  
roughness of surfaces] Opticheskie i shchupovye pribory  
dlia izmereniia sherokhovatosti poverkhnosti. Izd.2., ispr.  
i dop. Moskva, Mashinostroenie, 1965. 222 p.

(MIRA 18:3)

DYACHENKO, P., gvardii podpolkovnik

In tank radio stations. Voen. vest. 41 no.9:69-70 S '61.  
(MIRA 15:1)  
(Radio, Military--Study and teaching)

D'YACHENKO, P.

23394 Vliyaniye belkov na stoykost' slivochnogo masla. Moloch.  
Prom-st', 1941, No. 7, c. 17-20.

SO: LETOPIS NO. 31, 1949



D'YACHENKO, P. E.

Obobshchennaya otsenka makro-mikrogeometrii poverkhnosti. Moskva, Oborongiz,  
1942. 4 p. (TSIAM, Trudy, no. 42)

Title tr.: General evaluation of the surface macro-microgeometry.

TL701.A1M72 no.42

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress  
1955.

D. YACHENKO, P. E.

Obobshchennaia otsenka makro-mikrogeometrii poverkhnosti. Moskva Oborongiz, 1942. 4 p.

TSentral'nyi nauchno-issledovatel'skii institut aviatsionnogo motorostroeniia im. P.I. Baranova. Trudy. No. 42.

General evaluation of the surface macro-microgeometry.

DLC: Unclass.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

D. VACHENKO, P. A.

Kriterii otsenki mikrogeometrii poverkhnosti. Moskva, 1942. 103, (1) p.  
illus., diags. (1 fold.)

At head of title: Akademiia nauk Soiuza SSR. Institut mashinovedeniia.

Bibliography: p. 98-(104)

Criteria of the surface microgeometry.

WaU

DLC: TA407.D5

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library  
of Congress, 1953.

D. YACHENKO, P. E.

Kachestvo poverkhnosti detalei aviatsionnogo motora. Moskva, 1946. 71 p.  
diags., tables.

At head of title: Akademiia nauk Soiuza SSR. Institut mashinovedeniia.

S Surface quality of the elements of an aircraft engine.

DLC: TL701.1.D5

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library  
of Congress, 1953.

D'YACHENKO, P. Ye.

PHASE I      TREASURE ISLAND BIBLIOGRAPHICAL REPORT      AID 700 - I

BOOK

Call No.: AF 337338

Author: D'YACHENKO, P. YE.

Full Title: SURFACE QUALITY OF AIRCRAFT ENGINE PARTS

Transliterated Title: Kachestvo poverkhnosti detaley  
aviatsionnogo motora

PUBLISHING DATA

Originating Agency: Institute of Machine Design of the Academy of  
Sciences of the USSR

Publishing House: Publishing House of the Academy of Sciences of  
the USSR

Date: 1946      No. pp.: 72      No. of copies: 3,000

Editorial Staff

Editor in Chief: Khrushchov, M. M., Prof.

PURPOSE: This study is written for engineers specializing in engine  
construction.

TEXT DATA

Coverage: In this study the author furnishes and analyses technical  
data for the establishment of standards of finish for various  
engine parts. In particular the following problems are discussed:  
1) evaluation of the microgeometric structure of the surface finish,

1/2

AID 700 - I

Kachestvo poverkhnosti detaley aviatsionnogo motora

2) surface quality of aircraft engine components, 3) hardening of machined surfaces, 4) resistance to wear of surfaces of various grades of finish, 5) proper direction of strokes or traces of machining, 6) problems of standards for surface finishing of various engine parts. Graphs, diagrams, tables.  
No. of References: Total 13, Russian 3, 1929-1943, other 10, 1931-1942.

Facilities: Several well-known research institutes are mentioned in the text.

2/2

DIYACHENKO, P<sup>V</sup>/E.

Kachestvo poverkhnosti detalei aviatsionnogo motora. Moskva, Izd-vo Akademii Nauk SSSR, 1946. 71 p., diags., tables.

Title tr.: Surface characteristics of aviation engine parts.

TL701.1.D5

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress 1955.

117 AND 118 ORDERS

PROCESSING AND PROPERTIES INDEX

5

B

Standard Classification of Machined Surface Finish. P. E. Dyachenko. *Engineers' Digest* (American Edition), v. 3, Oct. 1946, p. 527-528. From *Vestnik Inzhenerov i Teknikov*, Russia, no. 2, 1946, p. 73-78. Describes new U.S.S.R. Standard Classification of micro-smoothness of machined surfaces.

ASIA SIA METALLURGICAL LITERATURE CLASSIFICATION

117 AND 118 ORDERS

117 AND 118 ORDERS



D'YACHENKO, P. Ye.

Quantity relation among the characteristics in estimating the microgeometry of a surface.

Vest. inzh. i tekhn. no. 3, 1948.

SO: MLRA, April 1952.

D. YACHENKO, P. YE.

Zadachi v oblasti izucheniia kachestva poverkhnosti detalei mashin.  
Vestn. Mash., 1948, no.8, p. 19-24

Problems in the study of the surface quality of machine parts.

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library  
of Congress, 1953.

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
<p><b>B</b></p> <p><b>5</b></p> <p><b>Permissible Limits and Measurement of the Roughness of Machined Surfaces.</b> P. E. Dyachenko. <i>Engineers' Digest</i> (American Edition), v. 5, Oct. 1948, p. 385-387. Translated and condensed from <i>Stanki i Instrument</i> (Machine Tools and Instruments), no. 9, 1947, p. 17-20.</p> <p>Experiments have shown that the measured surface roughness of machined metal is usually rather different from that which may be expected from calculations based on the shape of the tool used for machining. A graph shows the measure of irregularity as a function of the cutting speed and the feed. Diagrams show the limits of the various ranges in which the roughness characteristics differ from each other. Calculated formulas for determining the measure of roughness are also given.</p>																			
<p>ASB-31A METALLURGICAL LITERATURE CLASSIFICATION</p>																			
<p>FROM DIVISION</p>										<p>FROM COUNTRY</p>									
<p>100000 00</p>										<p>100000 00</p>									
<p>100000 00</p>										<p>100000 00</p>									

PA 11/49T27

---

USSR/Engineering  
Surfaces - Quality

Aug 48

"Tasks in the Field of Studying the Quality of  
Machine-Parts Surfaces," P. Ye. D'yachenko, Dr Tech  
Sci, 6 pp

"Vest Mashinostroy" No 8

International Standards Organization has asked USSR to  
work out standards for machine-parts surfaces.  
Describes mechanical and optical gaging methods.  
*Discusses relation between surface finish and*  
durability. Mentions institutes in which research  
is being done.

14/49T27

D'YACHENKO, P. E.

PA 37/49T52

USSR/Engineering  
Surfaces - Quality  
Profilometer

Sep 48

"The Practice of Taking Impressions for Determining  
the Microgeometry of a Surface," P. E. D'yachenko,  
Dr Tech Sci,  $\frac{1}{2}$  p

"Stanki i Instrument" No 9

Gives practical directions to determine smoothness  
of machined surface by taking celluloid impression,  
and using profilometer.

37/49T52

D'YACHENKO P. YE.

PA 21/49T37

USSR/Engineering  
Surfaces - Quality  
Profilometer

Oct 48

"Modern Gauges for Quantitative Evaluation of Surface Roughness," P. Ye. D'yachenko, Inst Mach Studies, Acad Sci USSR, 6½ pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 10

Discusses relative merits of four gauges: Amman's profilograph (USSR), Levin's profilograph (USSR), Abbot's profilometer (US), and Brash's profilograph (US). Includes one table, and six diagrams.

21/49T37

D'YACHENKO, P. Ye., Prof.

PA 37/49T73

USSR/Engineering  
Machines, Surfacing  
Machinery

Sep 48

"Second Scientific Technical Session on the Surface  
Quality of Machine Parts," Prof P. Ye. D'yachenko,  
Dr Tech Sci, 3/4 p

"Vest Mashinostroy" Vol XXVIII, No 9

Session was held in Apr 48 at Inst of Mach Studies,  
Acad Sci USSR. It reviewed the work of industry and  
the research organizations during last 3 years on  
quality of machine-part surfaces. Summarizes results  
of session.

37/49T73

D. YACHENKO, P. YE.

Issledovanie zavisimosti mikrogeometrii poverkhnosti ot uslovii mikhanicheskoi obrebotki. Moskva, 1949. 124 p. illus.

At head of title: Akademiia nauk SSSR. Institut mashinovedeniia.

Relation of surface microgeometry to machining factors.

DLC: TA407.D48

SO: Manufacturing and MEchanical Engineering in the Soviet Union, Library of Congress, 1953.



D.YACHENKO, P.E.

Issledovanie zabisimosti mikrogeometrii poverkhnosti ot uslovii mekhanicheskoi obrabotki. Moskva, Izd-vo Akademii Nauk SSSR, 1949. 124 p., illus.

Title tr.: Investigation of the relationship of the microgeometry of surface and its machining characteristics.

TA407.D48

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

D'YACHENKO, P. Ye.

"Methods for Determining the Depth and Degree of Adhesion of Metal," Vestnik tekhnicheskoy informatsiy Ministerstva stankostroyeniya SSSR, No. 2, 1949.

"Studies of the Relationship of the Microgeometry of Surfaces to Conditions of Machining." Acad. Sci. USSR, Institute of Machine Studies, 1949, 127 pp.

"Effect of the Microgeometry of Cutters on the Purity of a Machined Surface."  
"Examination of the Purity of the Surface of Cutting Instruments." Symposium,  
Surface Purity of Cutting Instruments, Central Bureau of Technical Information,  
1949.

D. YACHENKO, P/E.

O bor'be s iznosom mashin. (Vestn. Mash., 1950, no. 7, p.29-31)

Measures against the wear of machines.

SIC: TND, VH

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

16

Measurement of Waviness of Finished Surfaces. (In Russian.) P. E. D'yachenko and V. Z. Vainshtein. *Stanki i Instrument* (Machine Tools and Equipment), v. 21, Jan. 1950, p. 15-16.

Briefly studies the above, defining waviness as regular, repetitive irregularity of the surface caused by nonuniformity of the cutting process. Special modifications of ordinary profilometers to measure waviness of surfaces are described. "Wavograms" obtained experimentally illustrate the article.

PROCESSING AND PROPERTIES INDEX

1ST AND 2ND ORDER

3RD AND 4TH ORDER

5TH AND 6TH ORDER

7TH AND 8TH ORDER

9TH AND 10TH ORDER

11TH AND 12TH ORDER

13TH AND 14TH ORDER

15TH AND 16TH ORDER

17TH AND 18TH ORDER

19TH AND 20TH ORDER

21ST AND 22ND ORDER

23RD AND 24TH ORDER

25TH AND 26TH ORDER

27TH AND 28TH ORDER

29TH AND 30TH ORDER

31ST AND 32ND ORDER

33RD AND 34TH ORDER

35TH AND 36TH ORDER

37TH AND 38TH ORDER

39TH AND 40TH ORDER

41ST AND 42ND ORDER

43RD AND 44TH ORDER

45TH AND 46TH ORDER

47TH AND 48TH ORDER

49TH AND 50TH ORDER

51ST AND 52ND ORDER

53RD AND 54TH ORDER

55TH AND 56TH ORDER

57TH AND 58TH ORDER

59TH AND 60TH ORDER

61ST AND 62ND ORDER

63RD AND 64TH ORDER

65TH AND 66TH ORDER

67TH AND 68TH ORDER

69TH AND 70TH ORDER

71ST AND 72ND ORDER

73RD AND 74TH ORDER

75TH AND 76TH ORDER

77TH AND 78TH ORDER

79TH AND 80TH ORDER

81ST AND 82ND ORDER

83RD AND 84TH ORDER

85TH AND 86TH ORDER

87TH AND 88TH ORDER

89TH AND 90TH ORDER

91ST AND 92ND ORDER

93RD AND 94TH ORDER

95TH AND 96TH ORDER

97TH AND 98TH ORDER

99TH AND 100TH ORDER

101ST AND 102ND ORDER

103RD AND 104TH ORDER

105TH AND 106TH ORDER

107TH AND 108TH ORDER

109TH AND 110TH ORDER

111ST AND 112ND ORDER

113RD AND 114TH ORDER

115TH AND 116TH ORDER

117TH AND 118TH ORDER

119TH AND 120TH ORDER

121ST AND 122ND ORDER

123RD AND 124TH ORDER

125TH AND 126TH ORDER

127TH AND 128TH ORDER

129TH AND 130TH ORDER

131ST AND 132ND ORDER

133RD AND 134TH ORDER

135TH AND 136TH ORDER

137TH AND 138TH ORDER

139TH AND 140TH ORDER

141ST AND 142ND ORDER

143RD AND 144TH ORDER

145TH AND 146TH ORDER

147TH AND 148TH ORDER

149TH AND 150TH ORDER

151ST AND 152ND ORDER

153RD AND 154TH ORDER

155TH AND 156TH ORDER

157TH AND 158TH ORDER

159TH AND 160TH ORDER

161ST AND 162ND ORDER

163RD AND 164TH ORDER

165TH AND 166TH ORDER

167TH AND 168TH ORDER

169TH AND 170TH ORDER

171ST AND 172ND ORDER

173RD AND 174TH ORDER

175TH AND 176TH ORDER

177TH AND 178TH ORDER

179TH AND 180TH ORDER

181ST AND 182ND ORDER

183RD AND 184TH ORDER

185TH AND 186TH ORDER

187TH AND 188TH ORDER

189TH AND 190TH ORDER

191ST AND 192ND ORDER

193RD AND 194TH ORDER

195TH AND 196TH ORDER

197TH AND 198TH ORDER

199TH AND 200TH ORDER

201ST AND 202ND ORDER

203RD AND 204TH ORDER

205TH AND 206TH ORDER

207TH AND 208TH ORDER

209TH AND 210TH ORDER

211ST AND 212ND ORDER

213RD AND 214TH ORDER

215TH AND 216TH ORDER

217TH AND 218TH ORDER

219TH AND 220TH ORDER

221ST AND 222ND ORDER

223RD AND 224TH ORDER

225TH AND 226TH ORDER

227TH AND 228TH ORDER

229TH AND 230TH ORDER

231ST AND 232ND ORDER

233RD AND 234TH ORDER

235TH AND 236TH ORDER

237TH AND 238TH ORDER

239TH AND 240TH ORDER

241ST AND 242ND ORDER

243RD AND 244TH ORDER

245TH AND 246TH ORDER

247TH AND 248TH ORDER

249TH AND 250TH ORDER

251ST AND 252ND ORDER

253RD AND 254TH ORDER

255TH AND 256TH ORDER

257TH AND 258TH ORDER

259TH AND 260TH ORDER

261ST AND 262ND ORDER

263RD AND 264TH ORDER

265TH AND 266TH ORDER

267TH AND 268TH ORDER

269TH AND 270TH ORDER

271ST AND 272ND ORDER

273RD AND 274TH ORDER

275TH AND 276TH ORDER

277TH AND 278TH ORDER

279TH AND 280TH ORDER

281ST AND 282ND ORDER

283RD AND 284TH ORDER

285TH AND 286TH ORDER

287TH AND 288TH ORDER

289TH AND 290TH ORDER

291ST AND 292ND ORDER

293RD AND 294TH ORDER

295TH AND 296TH ORDER

297TH AND 298TH ORDER

299TH AND 300TH ORDER

301ST AND 302ND ORDER

303RD AND 304TH ORDER

305TH AND 306TH ORDER

307TH AND 308TH ORDER

309TH AND 310TH ORDER

311ST AND 312ND ORDER

313RD AND 314TH ORDER

315TH AND 316TH ORDER

317TH AND 318TH ORDER

319TH AND 320TH ORDER

321ST AND 322ND ORDER

323RD AND 324TH ORDER

325TH AND 326TH ORDER

327TH AND 328TH ORDER

329TH AND 330TH ORDER

331ST AND 332ND ORDER

333RD AND 334TH ORDER

335TH AND 336TH ORDER

337TH AND 338TH ORDER

339TH AND 340TH ORDER

341ST AND 342ND ORDER

343RD AND 344TH ORDER

345TH AND 346TH ORDER

347TH AND 348TH ORDER

349TH AND 350TH ORDER

351ST AND 352ND ORDER

353RD AND 354TH ORDER

355TH AND 356TH ORDER

357TH AND 358TH ORDER

359TH AND 360TH ORDER

361ST AND 362ND ORDER

363RD AND 364TH ORDER

365TH AND 366TH ORDER

367TH AND 368TH ORDER

369TH AND 370TH ORDER

371ST AND 372ND ORDER

373RD AND 374TH ORDER

375TH AND 376TH ORDER

377TH AND 378TH ORDER

379TH AND 380TH ORDER

381ST AND 382ND ORDER

383RD AND 384TH ORDER

385TH AND 386TH ORDER

387TH AND 388TH ORDER

389TH AND 390TH ORDER

391ST AND 392ND ORDER

393RD AND 394TH ORDER

395TH AND 396TH ORDER

397TH AND 398TH ORDER

399TH AND 400TH ORDER

401ST AND 402ND ORDER

403RD AND 404TH ORDER

405TH AND 406TH ORDER

407TH AND 408TH ORDER

409TH AND 410TH ORDER

411ST AND 412ND ORDER

413RD AND 414TH ORDER

415TH AND 416TH ORDER

417TH AND 418TH ORDER

419TH AND 420TH ORDER

421ST AND 422ND ORDER

423RD AND 424TH ORDER

425TH AND 426TH ORDER

427TH AND 428TH ORDER

429TH AND 430TH ORDER

431ST AND 432ND ORDER

433RD AND 434TH ORDER

435TH AND 436TH ORDER

437TH AND 438TH ORDER

439TH AND 440TH ORDER

441ST AND 442ND ORDER

443RD AND 444TH ORDER

445TH AND 446TH ORDER

447TH AND 448TH ORDER

449TH AND 450TH ORDER

451ST AND 452ND ORDER

453RD AND 454TH ORDER

455TH AND 456TH ORDER

457TH AND 458TH ORDER

459TH AND 460TH ORDER

461ST AND 462ND ORDER

463RD AND 464TH ORDER

465TH AND 466TH ORDER

467TH AND 468TH ORDER

469TH AND 470TH ORDER

471ST AND 472ND ORDER

473RD AND 474TH ORDER

475TH AND 476TH ORDER

477TH AND 478TH ORDER

479TH AND 480TH ORDER

481ST AND 482ND ORDER

483RD AND 484TH ORDER

485TH AND 486TH ORDER

487TH AND 488TH ORDER

489TH AND 490TH ORDER

491ST AND 492ND ORDER

493RD AND 494TH ORDER

495TH AND 496TH ORDER

497TH AND 498TH ORDER

499TH AND 500TH ORDER

501ST AND 502ND ORDER

503RD AND 504TH ORDER

505TH AND 506TH ORDER

507TH AND 508TH ORDER

509TH AND 510TH ORDER

511ST AND 512ND ORDER

513RD AND 514TH ORDER

515TH AND 516TH ORDER

517TH AND 518TH ORDER

519TH AND 520TH ORDER

521ST AND 522ND ORDER

523RD AND 524TH ORDER

525TH AND 526TH ORDER

527TH AND 528TH ORDER

529TH AND 530TH ORDER

531ST AND 532ND ORDER

533RD AND 534TH ORDER

535TH AND 536TH ORDER

537TH AND 538TH ORDER

539TH AND 540TH ORDER

541ST AND 542ND ORDER

543RD AND 544TH ORDER

545TH AND 546TH ORDER

547TH AND 548TH ORDER

549TH AND 550TH ORDER

551ST AND 552ND ORDER

553RD AND 554TH ORDER

555TH AND 556TH ORDER

557TH AND 558TH ORDER

559TH AND 560TH ORDER

561ST AND 562ND ORDER

563RD AND 564TH ORDER

565TH AND 566TH ORDER

567TH AND 568TH ORDER

569TH AND 570TH ORDER

571ST AND 572ND ORDER

573RD AND 574TH ORDER

575TH AND 576TH ORDER

577TH AND 578TH ORDER

579TH AND 580TH ORDER

581ST AND 582ND ORDER

583RD AND 584TH ORDER

585TH AND 586TH ORDER

587TH AND 588TH ORDER

589TH AND 590TH ORDER

591ST AND 592ND ORDER

593RD AND 594TH ORDER

595TH AND 596TH ORDER

597TH AND 598TH ORDER

599TH AND 600TH ORDER

601ST AND 602ND ORDER

603RD AND 604TH ORDER

605TH AND 606TH ORDER

607TH AND 608TH ORDER

609TH AND 610TH ORDER

611ST AND 612ND ORDER

613RD AND 614TH ORDER

615TH AND 616TH ORDER

617TH AND 618TH ORDER

619TH AND 620TH ORDER

621ST AND 622ND ORDER

623RD AND 624TH ORDER

625TH AND 626TH ORDER

627TH AND 628TH ORDER

629TH AND 630TH ORDER

631ST AND 632ND ORDER

633RD AND 634TH ORDER

635TH AND 636TH ORDER

637TH AND 638TH ORDER

639TH AND 640TH ORDER

641ST AND 642ND ORDER

643RD AND 644TH ORDER

645TH AND 646TH ORDER

647TH AND 648TH ORDER

649TH AND 650TH ORDER

651ST AND 652ND ORDER

653RD AND 654TH ORDER

655TH AND 656TH ORDER

657TH AND 658TH ORDER

659TH AND 660TH ORDER

661ST AND 662ND ORDER

663RD AND 664TH ORDER

665TH AND 666TH ORDER

667TH AND 668TH ORDER

669TH AND 670TH ORDER

671ST AND 672ND ORDER

673RD AND 674TH ORDER

675TH AND 676TH ORDER

677TH AND 678TH ORDER

679TH AND 680TH ORDER

681ST AND 682ND ORDER

683RD AND 684TH ORDER

685TH AND 686TH ORDER

687TH AND 688TH ORDER

689TH AND 690TH ORDER

691ST AND 692ND ORDER

693RD AND 694TH ORDER

695TH AND 696TH ORDER

697TH AND 698TH ORDER

699TH AND 700TH ORDER

701ST AND 702ND ORDER

703RD AND 704TH ORDER

705TH AND 706TH ORDER

707TH AND 708TH ORDER

709TH AND 710TH ORDER

711ST AND 712ND ORDER

713RD AND 714TH ORDER

715TH AND 716TH ORDER

717TH AND 718TH ORDER

719TH AND 720TH ORDER

721ST AND 722ND ORDER

723RD AND 724TH ORDER

725TH AND 726TH ORDER

727TH AND 728TH ORDER

729TH AND 730TH ORDER

731ST AND 732ND ORDER

733RD AND 734TH ORDER

735TH AND 736TH ORDER

737TH AND 738TH ORDER

739TH AND 740TH ORDER

741ST AND 742ND ORDER

743RD AND 744TH ORDER

745TH AND 746TH ORDER

747TH AND 748TH ORDER

749TH AND 750TH ORDER

751ST AND 752ND ORDER

753RD AND 754TH ORDER

755TH AND 756TH ORDER

757TH AND 758TH ORDER

759TH AND 760TH ORDER

761ST AND 762ND ORDER

763RD AND 764TH ORDER

765TH AND 766TH ORDER

767TH AND 768TH ORDER

769TH AND 770TH ORDER

771ST AND 772ND ORDER

773RD AND 774TH ORDER

775TH AND 776TH ORDER

777TH AND 778TH ORDER

779TH AND 780TH ORDER

781ST AND 782ND ORDER

783RD AND 784TH ORDER

785TH AND 786TH ORDER

787TH AND 788TH ORDER

789TH AND 790TH ORDER

791ST AND 792ND ORDER

793RD AND 794TH ORDER

795TH AND 796TH ORDER

797TH AND 798TH ORDER

799TH AND 800TH ORDER

801ST AND 802ND ORDER

803RD AND 804TH ORDER

805TH AND 806TH ORDER

807TH AND 808TH ORDER

809TH AND 810TH ORDER

811ST AND 812ND ORDER

813RD AND 814TH ORDER

815TH AND 816TH ORDER

817TH AND 818TH ORDER

819TH AND 820TH ORDER

821ST AND 822ND ORDER

823RD AND 824TH ORDER

825TH AND 826TH ORDER

827TH AND 828TH ORDER

829TH AND 830TH ORDER

831ST AND 832ND ORDER

833RD AND 834TH ORDER

835TH AND 836TH ORDER

837TH AND 838TH ORDER

839TH AND 840TH ORDER

841ST AND 842ND ORDER

843RD AND 844TH ORDER

845TH AND 846TH ORDER

847TH AND 848TH ORDER

849TH AND 850TH ORDER

851ST AND 852ND ORDER

853RD AND 854TH ORDER

855TH AND 856TH ORDER

857TH AND 858TH ORDER

859TH AND 860TH ORDER

861ST AND 862ND ORDER

863RD AND 864TH ORDER

865TH AND 866TH ORDER

867TH AND 868TH ORDER

869TH AND 870TH ORDER

871ST AND 872ND ORDER

873RD AND 874TH ORDER

875TH AND 876TH ORDER

877TH AND 878TH ORDER

879TH AND 880TH ORDER

881ST AND 882ND ORDER

883RD AND 884TH ORDER

885TH AND 886TH ORDER

887TH AND 888TH ORDER

889TH AND 890TH ORDER

891ST AND 892ND ORDER

893RD AND 894TH ORDER

895TH AND 896TH ORDER

897TH AND 898TH ORDER

899TH AND 900TH ORDER

901ST AND 902ND ORDER

903RD AND 904TH ORDER

905TH AND 906TH ORDER

907TH AND 908TH ORDER

909TH AND 910TH ORDER

911ST AND 912ND ORDER

913RD AND 914TH ORDER

915TH AND 916TH ORDER

917TH AND 918TH ORDER

919TH AND 920TH ORDER

921ST AND 922ND ORDER

923RD AND 924TH ORDER

925TH AND 926TH ORDER

927TH AND 928TH ORDER

929TH AND 930TH ORDER

931ST AND 932ND ORDER

933RD AND 934TH ORDER

935TH AND 936TH ORDER

937TH AND 938TH ORDER

939TH AND 940TH ORDER

941ST AND 942ND ORDER

943RD AND 944TH ORDER

945TH AND 946TH ORDER

947TH AND 948TH ORDER

949TH AND 950TH ORDER

951ST AND 952ND ORDER

953RD AND 954TH ORDER

955TH AND 956TH ORDER

957TH AND 958TH ORDER

959TH AND 960TH ORDER

961ST AND 962ND ORDER

963RD AND 964TH ORDER

965TH AND 966TH ORDER

967TH AND 968TH ORDER

969TH AND 970TH ORDER

971ST AND 972ND ORDER

973RD AND 974TH ORDER

975TH AND 976TH ORDER

977TH AND 978TH ORDER

979TH AND 980TH ORDER

981ST AND 982ND ORDER

983RD AND 984TH ORDER

985TH AND 986TH ORDER

987TH AND 988TH ORDER

989TH AND 990TH ORDER

991ST AND 992ND ORDER

993RD AND 994TH ORDER

995TH AND 996TH ORDER

997TH AND 998TH ORDER

999TH AND 1000TH ORDER

100 AND 814 CROOKS

117 AND 2ND CROOKS

PROCESSES AND PROPERTIES INDEX

5

B

**Sharpness of Cutting Tool Edges and Quality of the Surface.** (In Russian.) P. E. Dyachenko. *Stanki i Instrument* (Machine Tools and Equipment), v. 21, Feb. 1950, p. 19-20.

Influence of sharpness (radius of curvature) of the cutting edge on character of the finished surface roughness, degree of stress hardening, and depth of such hardening was investigated. Influence of crystal structure of the steel being cut (sorbite, pearlite, etc.) on the machined surface is also indicated. Experimental data are charted and tabulated.

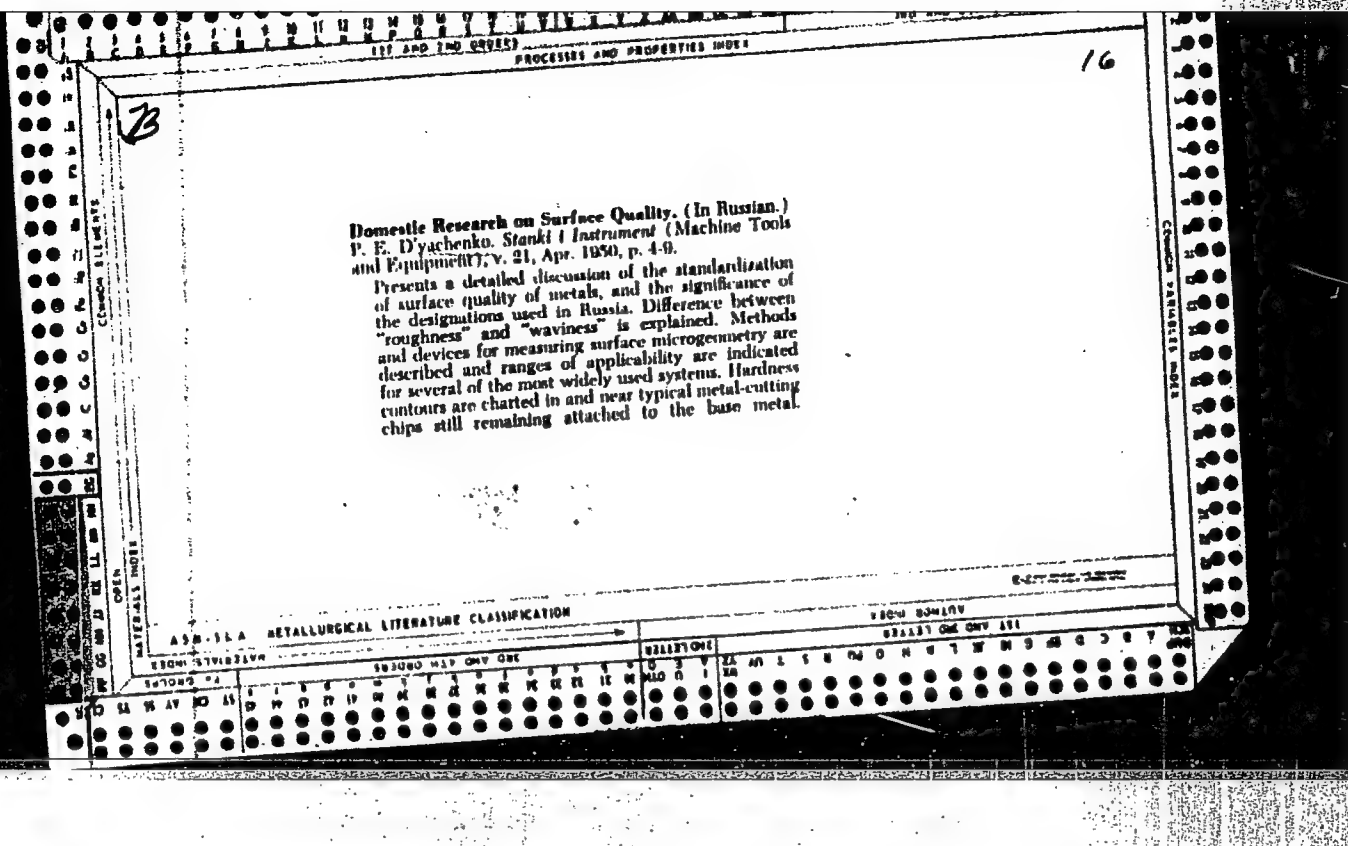
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

LEGEND SYMBOLS

100 AND 814 CROOKS

117 AND 2ND CROOKS

**Surface Quality in Broaching.** P. E. D'yachenko and A. P. Dobrykhina. (*Stanki i Instrumenty*, 1950, No. 3, 12-14). [In Russian]. The factors influencing the quality of a surface produced by broaching are considered. The distribution of plastic deformation during the broaching of a specimen of normalized steel is illustrated and graphs are given showing the dependence of surface roughness on cutting conditions for this specimen, as well as for those with lamellar pearlitic, granular pearlitic, and sorbitic structures, respectively.—S. S.



D'YACHENKO, P. Ya. professor.

Preface. Trudy Sem. po kach. poverkh. no.1:3-4 '51. (MLBA 10:8)  
(Surfaces (Technology))



D'YACHENKO, P.Ye.

Method for determining the depth of hardened layer of metals.  
without cutting pieces. Trudy Sem. po kach. poverkh. no.1:5-  
16 '51. (MIRA 10:8)

(Metallography)

D.YACHENKO, P.E. and M.O. IAKOBSON.

Kachestvo poverkhnosti pri obrabotke metallov rezaniem. Moskva, Mashgiz,  
1951. 208 p.

Surface quality during metal-cutting..

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library  
of Congress, 1953.

D'YACHENKO, P. Ye.

184751

USSR/Engineering - Machines, Testing Jan 51

"Some Results of Investigating the Surface Quality of Machine Parts," P. Ye. D'yachenko, Inst Mech Studies, Acad Sci USSR

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 1, pp 22-28

D'yachenko briefly reviews his previous works: modern instrs for measuring surface irregularity of mach parts, surface quality of aircraft-eng parts, influence of roughness on wear, influence of mech working on surface microgeom, methods for evaluating surface fineness. Shows dependence of surface quality on cutting speed and feed in

184751

USSR/Engineering - Machines, Testing Jan 51  
(Contd)

several diagrams. Submitted by Acad Ye. A. Chudakov.

184751

D'YACHENKO, P. YE., FRCF., DOBYCHINA, A. P.

Turning

Residual stresses in high velocity lathe-turnings. Vest. mash. 31, No. 10, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September, 1952, 1953. Unclassified.

D. JACHENKO, P. Ye; W. O. JAKOBSON

Die Beschaffenheit Der Oberflache Bei Der Zerspanung Von Metallen  
(Von) P. Djatschenko Und.. Berlin, Verlag Technik, 1952.

243 p. Illus., Diags., Tables.

Added T.-P. in Russian.

Also available cataloged as N/5

615.8

.D5.

So: Mic

C-34977

D'YACHENKO, P. Ya.

"Adoption of Kovlev's method at the reinforcement shop of the Construction Parts Plant No. 5," Biul. stroi. tekhn. 9, No. 6, 1952. (Zavod Stroydetal' No. 5)

MLRA, Aug 52

D'YACHENKO, P.Ye., professor.

Preface. Trudy Sem.po kach.poverkh.2:3-4 '53. (MLRA 7:2)  
(Surfaces(Technology))

E.YACHENKO, P.Ye.; VAYNSHTEYN, V.E.

Waviness of steel surfaces and its effect on the wear of bearing  
materials. Trudy Sem.po kach.poverkh.2:5-27 '53. (MIRA 7:2)  
(Surfaces (Technology)) (Bearings (Machinery))



D'YACHENKO, P.Ye., doktor tekhnicheskikh nauk.

Priority of Russian scientists in designing instruments for determining  
the degree of roughness of surfaces. Izv.AN SSSR Otd.tekh.nauk no.4:  
623-624 Ap '53.

(MLRA 6:8)

(Interferometer) (Surfaces (Technology))

1. D'YA'CHENKO, P. YE.; YAKOBSON, M. O.; STIGNEYEV, YA. F.; PUZANKOV, V. V.
2. USSR (600)
4. M. O. Yakobson
7. Surface quality in machining of metals by means of cutting, review of P. YE. D'yachenko, M. O. Yakobson, YA. F. Stifneyev, and V. V. Puzankov, Avt. trakt. prom., no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

D'YACHENKO, P.E., professor; SLINKO, B.L., kandidat tekhnicheskikh nauk.

Atoms and machines. Znan, sila no.5:1-3 My '53.

(MLRA 6:6)

(Machinery--Maintenance and repair)

D'YACHENKO, P.Ye.; SMUSHKOVA, T.V.

Effect of the direction of machining treatment marks on the lead  
bronze wearability. Tren.i izn.mash. no.7:56-71 '53. (MLRA 9:9)  
(Mechanical wear) (Lead bronze)

1. D'YACHENKO, P. Ye.
2. USSR (600)
4. Metals - Finishing
7. Making working models for smooth surface finish, Stan. i instr. 24 No. 4, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953. Uncl.

USSR/Engineering - Gages

Card 1/1

Author : D'yachenko, P. E.

Title : About the manufacture of surface gages

Periodical : Stan. 1 Instr. 24/4, 37, April 1953

Abstract : The author finds that many factories produce gages for evaluating perfection of surface without the use of special tools. There is no uniform system for preparing such gages and the author recommends that one be established.

Institution : ....

Submitted : ....

D'YACHENKO, P.Ye., professor, doktor tekhnicheskikh nauk, redaktor; DANILOV, I.Ya., redaktor; MEL'NIKOVA, Ye.I., tekhnicheskii redaktor

[Properties of metallic surfaces; collection of abridged translations]  
Svoistva metallicheskih poverkhnostei; sbornik sokrashchennykh pere-  
vodov. Moskva, Izd-vo inostrannoi lit-ry, 1954. 303 p. (MLRA 8:4)  
(Surfaces (Technology)) (Metals---Finishing)

7750

METHODS OF STUDY AND CONTROL OF MACHINE WEAR  
BY MEANS OF RADIOACTIVE ISOTOPES. P. E. Dyachenko.  
Akademika Nauk S.S.S.R., 1954. (In Russian) (Book on  
display at Geneva Conference)

Experience of Soviet research institutes and industrial  
plants in the use of radioactive isotopes for the investiga-  
tion of the wear of machine parts. The superiority of the  
radioactive isotope method over other methods in wear  
estimation (weighing, micrometric measuring, prints etc.).  
Analysis of the applicability of radioactive isotopes for  
wear estimation; description of the apparatus required for  
such investigations, the principles of selecting the radio-  
active substances, and calculation of the activity of the  
isotopes used. Methods of activating friction surfaces  
(electrolytic coating with radioactive layer, introduction of  
radioactive isotopes into the parts during casting, introduc-  
tion of wear witnesses by the insert method irradiation,  
diffusion and electric spark treatment methods). Method of  
simultaneous measurement of the wear of several parts  
with radiations of different types or of the same type but  
different energies. Safety rules; instructions for equipping  
laboratories for work with radioactive isotopes; application  
of radioactive isotopes in cutting down machine wear.  
(Publisher's note)

3  
IRML

Jan

RMX



D'YACHENKO, P. Ye.

TJ1160.A34

TREASURE ISLAND BOOK REVIEW

AID 856 - 3

D'YACHENKO, P. YE., B. L. SLINKO, and A. A. YEMELIN

PRIMENENIYE RADIOAKTIVNYKH IZOTOPOV DLYA OTSENKI IZNOSA DETALEY MASHIN (The Use of Radioactive Isotopes for Determination of the Wearability of Machine Parts). In Akademiya Nauk SSSR. Peredovoy opyt novatorov mashinostroyeniya (Progressive Experience of Leading Men in the Machine-Building Industry) 1954. Part I: Skorostnyye metody mekhanicheskoy obrabotki metallov (High-Speed Methods in Machining of Metals). p, 87-102.

The authors describe in detail the use of radioactive isotopes and the Geiger counter for determination deterioration of parts of a machine in operation. The selection of proper isotopes, the methods of their introduction into the part to be examined, the processes of analysis and the method of calculation of the part's wearability are described. The authors outline numerous advantages of the method, and make several recommendations for further development. Nine drawings, diagrams and 1 table.

1/1

Resistance to Wear and Tear; Strength; etc.

USSR/Engineering - Metals testing

Card 1/1 : Pub. 128 - 2/38

Authors : Dyachenko, P. E.

Title : Contribution to the problem of applying radioactive isotopes to the study of wear in machine components

Periodical : Vest. mash. 9, 9-14, Sep 1954

Abstract : The wear in machine components was studied by rendering small surface areas, subject to wear, radioactive. The wear of the radioactive region was then judged by counting the active particles removed in the process by lubrication. Radioactivity in melts was introduced by treatment in a cyclotron, electro-plating, probe inserts, diffusion, or electric spark treatment. Problems discussed include effect of sliding speed on wear, wear measurement, and the optimum roughness for bearing surfaces. Graphs; drawing.

Institution : .....

Submitted : .....

✓ Study of Wear at Elevated Temperatures under Conditions of Dry Friction. P. E. D'yachenko, O. E. Keatner, and L. A. Chatynyan (*Izvest. Akad. Nauk S.S.S.R., 1934, [Tekhn.], (11), 44-52*).—[In Russian]. The wear and coeff. of friction of metals and alloys (cast Cu, Ni, steel 30 KhGSA, Al-Fe-Ni bronze, Cr bronze, Sb bronze, and a Ni alloy) were studied in relation to load, duration of test, and temp. of the surroundings. The changes in surface structure were also studied and the microhardness of the specimens determined. The tests were carried out in a special apparatus in which 3 specimens from the same material placed at an angle of 120° to each other were pressed against a rotating disc of the steel 30 KhGSA. The disc and the specimens tested were enclosed in a furnace which could be heated to 800° C. Pressure exerted on the specimens varied from 0.5 to 60 kg./cm.<sup>2</sup>, and the peripheral velocity from 0.3 to 60 m./sec. The change of the friction coeff. during the experiment was measured with a damped dynamometer. An alloy based on Ni showed the lowest friction coeff. and losses due to wear at all loads and temp., and the usual antifriction alloys were found to be quite unsuitable for work in dry conditions below 200° C. Wear-resistance and low coeff. of friction in dry conditions at high temp. were found in metals and alloys which were able to form on the working surface a thin and compact film consisting most probably of oxides. The thickness and properties of this film depended on the compn. of the alloy, and hence it should be possible to obtain films of optimum resistance by suitable choice of alloying elements.

—S. K. L.

(2)

D'YACHENKO, P. Ye., professor, doktor tekhnicheskikh nauk

Use of radioactive isotopes for the study of machine-parts wear.  
[Izd.] LONITOMASH no. 34:41-57 '54. (MLRA 8:10)

1. Institut mashinovedeniya Akademii nauk SSSR.  
(Surfaces (Technology))

DYACHENKO, P. E.

USSR/Engineering - Cold working of steel

Card : 1/1 Pub. 128 - 12/32

Authors : Dyachenko, P. E. and Podosenova, N. A.

Title : Cold working and the residual stresses in steel during boring

Periodical : Vest. mash. 34/7, 45 - 47, July 1954

Abstract : Cold working of construction steels (mark 30KhGS, and 20), and the residual stresses in steel during boring, were analyzed. The tests were performed at cutting speeds of 5 to 500 m/min, and at various transverse feeds. Diagrams.

Institution : ...

Submitted : ...

12/16/68 1400Z 1968  
168  
The aircraft was flying at high speed at an altitude of 10,000 feet.

D'YACHENKO, P.Ye., doktor tekhnicheskikh nauk.

International conference on the microgeometry of surfaces held in  
Leningrad. Vest. AN SSSR 25 no.2:78-80 F '55. (MIRA 8:4)  
(Leningrad--Surfaces (Technology)--Congresses)



DIACHENKO, P. E.

2666\* Radioactive Isotopes in Technology. Radioaktivnye izotopy v tekhnike. (Russian.) P. E. Diachenko. Vestnik akademii nauk SSSR, v. 23, no. 10, Oct. 1933, p. 39-47. Application of isotopes in metallurgy, machine construction, wear of machine parts, corrosion, machining, nondestructive tests, bio-chemistry, and soil science. NU

D'YACHENKO, P.Ye.

Means for hardening the cutting edges of tools. Stan. 1 instr.  
26 no.9:19-20 S '55. (MIRA 9:1)  
(Cutting tools)

9721 Effect of Residual Stresses in Surface of Metals.

5

14210\* Application of Radioactive Indicators for Evaluating the Wear of Piston Rings. *Primenenie radioaktivnykh indikatorov dlia otsenki iznosa porshnevogo kol'tsa.* (Russian.) P. E. D'achenko and A. I. Nisnevich. *Vestnik Mashinostroyeniia*, v. 35, no. 7, July 1935, p. 19-22.

62. Determination of dependence of wear on effective pressure and effective power of the engine by radioactive tracers. Diagrams, tables, graphs. 8 ref.